

Installation and Operating Instructions

VW EOS Comfort-Module

Before installation:

Please read these instructions carefully and take your time with the installation. Performing the installation improperly can cause damage to the module or to electronic components in your vehicle. Claims cannot be asserted for consequences which arise out of disregard for these installation instructions. If you are not confident in doing the installation yourself, please obtain the services of a vehicle specialist.



Attention: Installation of this module may be grounds to invalidate your vehicle's homologation (general type certification) and/or its manufacturer's warranty. Do not operate the convertible top without the presence of another person – there is no entanglement protection. The installation and operation of the module is at your own risk.

Functional description:

The module only uses functions which were originally built into the vehicle. All data relevant to convertible top control (e.g. limit switches, window position, speed) will be continuously monitored. All OEM safety functions (under / over voltage cut-off, thermal protection, etc.) remain intact.

The module's functional scope and operation:

- **One touch function for the top's switch:**

Now you need only to tap (>2s) with your finger on the convertible top switch, then the top will automatically open or close. This automatic operation can be interrupted at any time by simply tapping on the switch again in any direction. You can start the top's operation, pull out the ignition key, get out of the car and lock it – the top will continue to automatically close or open without the ignition.

- **Operating the top while driving (up to a speed of 60 km/h maximum):**

Up to a pre-programmed speed (though not greater than 60 km/h), you can operate the top while driving.

- **Threshold speed adjustment:**

If, while driving, you press the central open button in the drivers door for longer than 4s, this will automatically set the vehicle's current speed as the new threshold limit. An acoustic signal will be sounded as confirmation that the new speed has been set. The maximum permissible threshold speed is 60 km/h. Anytime the battery is disconnected, including during the initial installation of the module, a threshold speed of 50 km/h will be set by default.

- **Auto lock/unlock:**

The vehicle will be locked automatically when it starts to move and will be unlocked by turning off the ignition.

- **Operating the top per OEM remote control:**

Press the Open switch on the remote control three times and the top will open automatically. Closing the top works with the remote command "close – open – open". As a safety precaution, the top movement can be terminated with the close button. You can start the top's operation, then pull in the ignition key, start the car and drive away – the top will continue to automatically close or open.

- **One touch operation for the central window lift switch:**

Now you need only to tap (>2s) with your finger on the central window lift switch, then the windows will automatically open or close. This automatic operation can be interrupted at any time by simply tapping on the switch again in any direction.

- **Service mode for technical vehicle inspections and diagnostic purposes:**

The central open switch in the drivers door can be held >4s depressed to activate the module, to set the module into service mode (deactivate it) use the central lock. The module is completely passive in service mode, i.e. all functions operate as if no module was installed. The module cannot even be detected with vehicle diagnostic equipment. An acoustic signal will be sounded as confirmation when mode has changed. Service mode is set by default after the battery has been disconnected or after the module is initially installed.



Attention: After the module has been installed it must first be set to normal mode in order to obtain its additional features because service mode is set by default.

Module installation:

1. close the top, open the trunk and remove the floor
2. pull out locking mechanism (Figure 1) to remove the trunk separation
3. remove mounting by loosen the screw (Figure 2)
4. remove warning triangle and 2 plastic rivets behind it (Figure 3 and 4). Then lift the trunk sealing that the back cover can be removed by pulling it to the top (it is clipped additionally).
Note: the wire to the trunk light must be disconnected (Figure 5)
5. remove bump rubber (Figure 6)
6. remove side cover in the trunk: remove all plastic rivets (Figure 7 and Figure 8). Pull the cover carefully to the middle of the trunk, note the wire to the switch which is connected to the cover. Disconnect the wire (Figure 9), now you can remove the side cover completely.
7. pull out right connector of the roof ECU (connector 1, Figure 10): pull out red locking mechanism and push the black one to remove the connector
8. remove the housing of the connector: lift locking mechanism (Figure 11) and pull out
9. remove following wires from the connector:
 - orange/green (Pin 1, orange wire with green stripe)
 - orange/brown (Pin 2, orange wire with brown stripe)
 - green (Pin 9)
 - blue (Pin 10)

push the locking mechanism down to pull out the wire, use a small screwdriver (Figure 12)
10. push the contacts of the module in the free places of the connector (Figure 13):
 - yellow/black (Pin 1, which was orange/green before)
 - grey/black (Pin 2, which was orange/brown before)
 - green (Pin 9, which was green before)
 - blue (Pin 10, which was blue before)
11. the wires pulled out of the connector have to be plugged in the empty 2-pole connectors. You will hear a "click" when they are in the right position. Then push the locking mechanism on the connector downwards. The wires have to be plugged in like this:

connector 1: green (Pin 1) und blue (Pin 2) (Figure 15)
connector 2: orange/green (Pin 1) and orange/brown (Pin 2) (Figure 16)
12. now connect them like shown in figure 15 and 16. Be sure, that the wiring is correct.
13. connect ground (Figure 14) and permanent +12V (Figure 10, connector 2, wire color red with yellow stripe). We recommend to solder the +12V connection, this is the safest way to connect two wires.
14. test the module: push a screwdriver into the trunk lock (Figure 17), now you should hear the lock motor running. You can unlock it when you stick the screwdriver in it (Figure 18)
Press the central open button in the drivers door for > 5s, then a acoustic signal will come up to show that the module is enabled now.
15. assembly everything in the reverse order

Figures 1 ... 6, module installation:



Figure 1: pull locking mechanism as arrow shows



Figure 2: remove mounting



Figure 3: remove warning triangle and plastic rivets



Figure 4: remove plastic rivets



Figure 5: remove connector



Figure 6: remove bump rubber

Figures 7 ... 12, module installation:

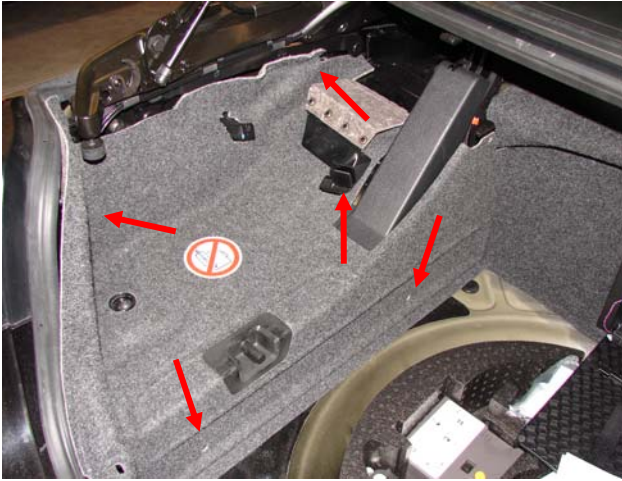


Figure 7: remove plastic rivets

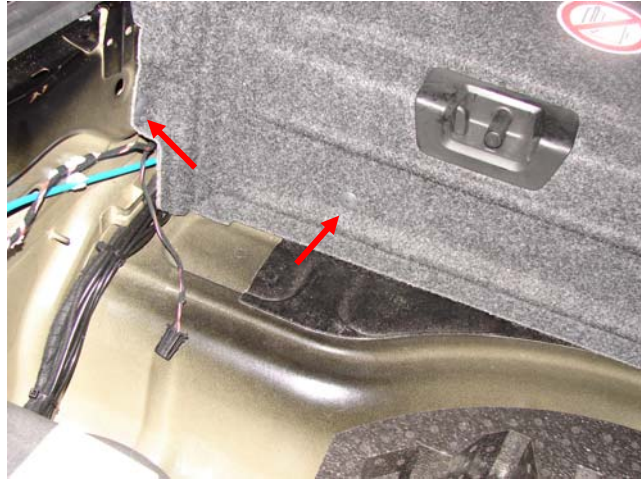


Figure 8: remove plastic rivets



Figure 9: pull out connector

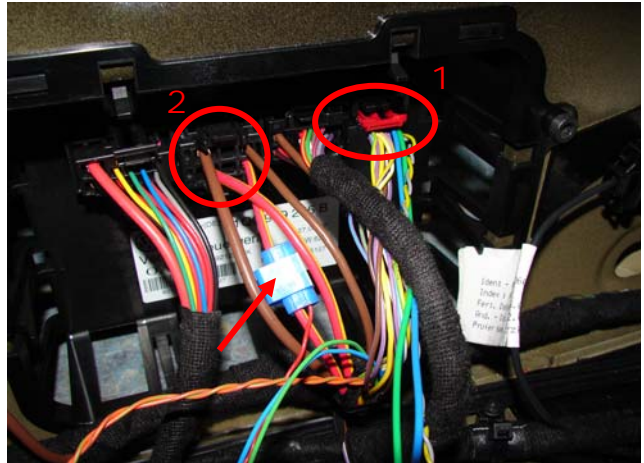


Figure 10: roof ECU: connectors, +12V-connection

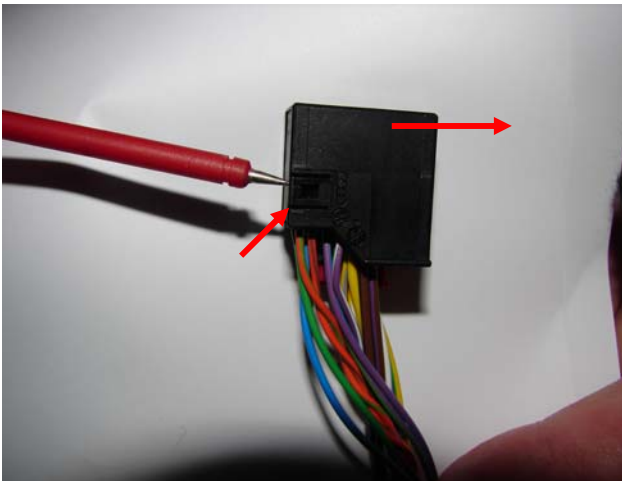


Figure 11: remove connector's housing

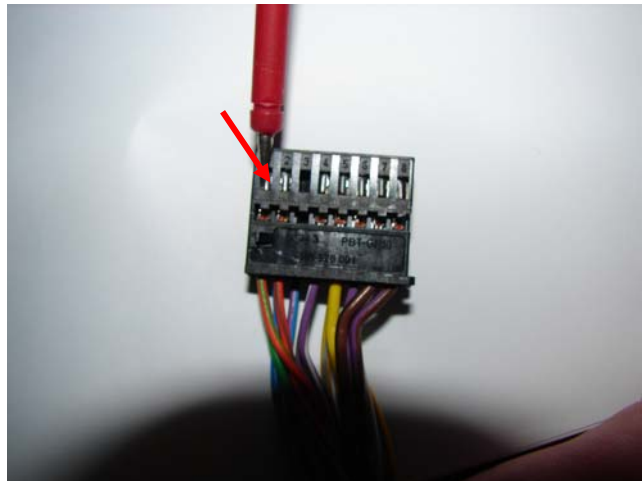


Figure 12: remove wires

Figures 13 ... 18, module installation:

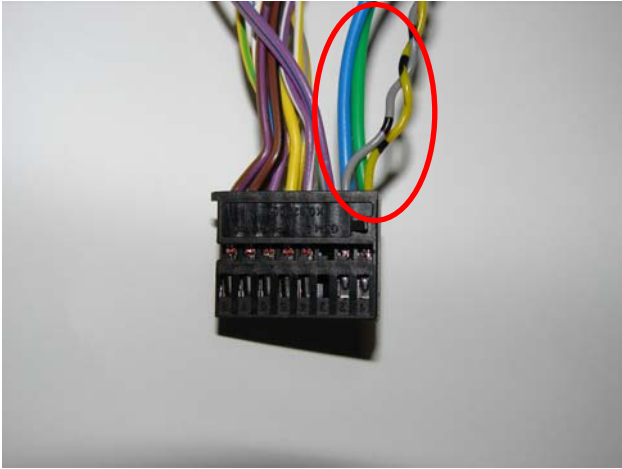


Figure 13: wires of comfort-module plugged in connector



Figure 14: ground connection



Figure 15: pinout connector 1:
green <=> green
blue <=> blue

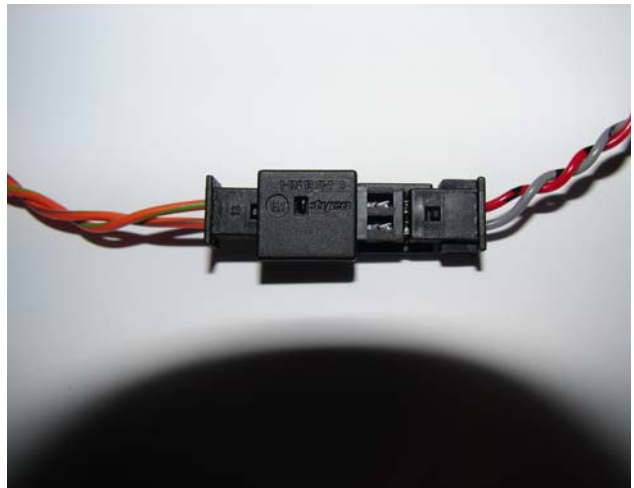


Figure 16: pinout connector 2:
orange/brown <=> grey/black
orange/green <=> red/black

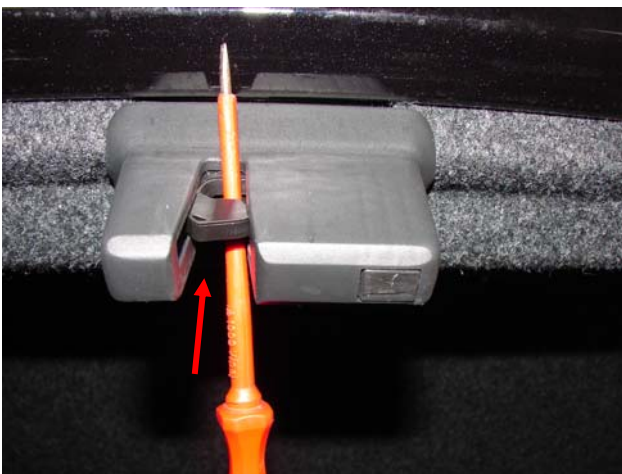


Figure 17: test the module, push screwdriver in locking unit

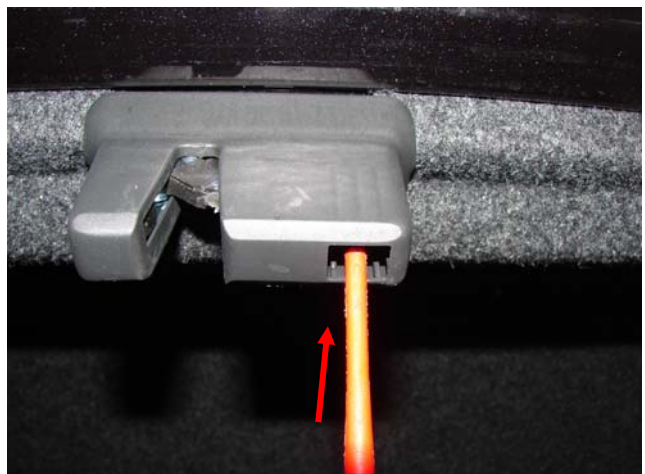


Figure 18: release locking unit